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(54) Title: DETECTION AND MONITORING OF LUNG CANCER

(57) Abstract: Compositions and methods for the diagnosis of lung cancer are disclosed. Such methods are useful to detect early tumors or provide adequate stage/grade information or tumor specificity. Compositions may comprise one or more lung tumor proteins, immunogenic portions thereof, or polynucleotides that encode such portions. Such compositions may be used, for example, to improve lung cancer diagnosis and prognosis and potentially differentiate between NSCLC and SCLC.

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07H 21/04; C12P 19/34

US CL : 435/6, 91.1, 91.2

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6, 91.1, 91.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
WEST, MEDLINE, ISSUED PATENTS, PUBLISHED APPLICATIONS, EST, GENEMBL, GENESEQ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02.02623 A2 (WANG et al) 10 January 2002 (10.01.2002), see entire reference, especially pages 28-47, 110-112, example 1 and SEQ ID NO: 453.	1-4
X	WO 02/004514 A2 (WANG et al) 17 January 2002 (17.01.2002), see entire reference, especially pages 7-8, 56, 78-81, 86-89, 95-98 and 143-149 and SEQ ID NO: 1868.	1-4
X	US 6,482,597 B1 (WANG et al) 19 November 2002 (19.11.2002), see column 1-50, 213-220, 251 and 252, especially columns 3-4, 35-36 and SEQ ID NO: 158 and 160.	1-4

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/07434

### Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material



a sequence listing



table(s) related to the sequence listing

b. format of material



in written format



in computer readable form

c. time of filing/furnishing



contained in the international application as filed



filed together with the international application in computer readable form



furnished subsequently to this Authority for the purposes of search

2. ☐

In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments: